

## Carmel Olefins IPETHENE® 111 Low Density Polyethylene

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Extrusion Grade

### Material Notes:

IPETHENE® 111 is a low density polyethylene extrusion grade, contains no additives. It exhibits a good balance between mechanical and optical properties. APPLICATIONS IPETHENE® 111 is used to produce 30 to 100 µm films for Form-Fill-Seal packaging, shrink applications, and agricultural films. It can also be used for extrusion of profiles, pipes and blow molded articles.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Carmel-Olefins-IPETHENE-111-Low-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_Carmel-Olefins-IPETHENE-111-Low-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in <sup>3</sup>	ISO 1183-A
Thickness	50.0 microns	1.97 mil	
Melt Flow	0.70 g/10 min @Load 2.16 kg, Temperature 190 °C	0.70 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	250 %	250 %	ISO 1184
Film Elongation at Break, TD	500 %	500 %	ISO 1184
Elmendorf Tear Strength MD	400 g	400 g	ISO 6283-2
Elmendorf Tear Strength TD	250 g	250 g	ISO 6283-2
Elmendorf Tear Strength, MD	8.00 g/micron	203 g/mil	ISO 6283-2
Elmendorf Tear Strength, TD	5.00 g/micron	127 g/mil	ISO 6283-2
Dart Drop	3.60 g/micron	91.4 g/mil	F50; ISO 7765-A
Dart Drop Test	180 g	0.397 lb	F50; ISO 7765-A
Film Tensile Strength at Break, MD	26.0 MPa	3770 psi	ISO 1184
Film Tensile Strength at Break, TD	17.0 MPa	2470 psi	ISO 1184

Optical Properties	Metric	English	Comments
Haze	8.0 %	8.0 %	ASTM D1003
Gloss	60 %	60 %	45°; ASTM D2457

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Blow-up Ratio (BUR)	2.0	2.0	

## Contact Songhan Plastic Technology Co.,Ltd.

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